



The DNA of tech.

Multi SMD RGB LED in Compact PLCC-6 Package

Provides Independent Control of Red, Green, and Blue Chips for Wide Color Range



ADVANTAGE

AEC-Q102 qualified device enables every color within the gamut triangle inside the CIE 1931 color space

KEY PRODUCT FEATURES

- ✓ High luminous intensity to 2800 mcd at 20 mA
- ✓ Utilizes the latest high brightness AlInGaP and InGaN technologies
- ✓ Dimensions: (L x W x H in mm): 3.5 x 2.8 x 1.4
 - 6-pin package allows individual control of the driving current of each chip
- ✓ Categorized per reel for luminous intensity, color, and forward voltage
- ✓ Operation temperature range: -40 °C to +110 °C



MARKETS AND APPLICATIONS



CONNECTIVITY

- Telecom mobile infrastructure
- Telecom mobile devices



CONSUMER

- Entertainment and appliances
- Health and care



MOBILITY

- Automotive
- Automotive electrification
- Automotive intelligence



ENERGY SECTOR

- Generation and exploration
- Distribution and management
- Storage



INDUSTRIAL

- Automation and infrastructure
- Drives and tools
- Home and building controls



COMPUTER

- Peripherals

RESOURCES



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ADDITIONAL BENEFITS

- Featuring separate anode and cathode connections for the red, green, and blue LED chips inside
- The device delivers 70 % higher brightness than previous-generation solutions in a package with a 22 % lower profile than competing products
- Offers a wide temperature range that is 25 °C higher than standard solutions and Class B1 corrosion robustness
- Withstands ESD voltages up to 2 kV for red and 8 kV for blue and green in accordance with JESD22-A114-B

DEVICE SPECIFICATION TABLE

Color		Red	Green	Blue
Luminous intensity (mcd) at $I_F = 20$ mA	Min.	710	1800	280
	Typ.	900	2200	320
	Max.	1400	2800	450
Wavelength (nm) at $I_F = 20$ mA	Min.	618	520	450
	Typ.	623	527	455
	Max.	630	535	462
Forward voltage (V) at $I_F = 20$ mA	Min.	1.75	2.5	2.5
	Typ.	1.95	2.75	3
	Max.	2.75	3.5	3.5
Angle of half intensity (°)		120		
Technology		AlInGaP	InGaN	InGaN